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cept Sundays, from 10 A.M. to 5 P.M., until November 1. Special exhibition of old deeds, manuscripts, books, portraits, etc., relating to the history of the United States up to and including the war of 1812. (Catalogue for sale.)

*New York Historical Society*, corner of Seventy-seventh Street and Central Park West. September 25 to October 30, open daily from 9 A.M. to 5 P.M. Robert Fulton exhibition of the New York Historical Society, in cooperation with the Colonial Dames of America. (Catalogue for sale.)

*New York Public Library*, Lenox Branch, Fifth Avenue and Seventy-second Street. Open daily, except Sundays, from 9 A.M. to 6 P.M. Special exhibition of prints, books, manuscripts, etc., relating to Henry Hudson, the Hudson River, Robert Fulton and steam navigation. (Special illustrated catalogue for sale; price, ten cents.)

*New York Zoological Park*, under the management of the New York Zoological Society, St. Nicholas Avenue (138th to 140th Streets), in Bronx Park. Open daily, including Sundays, from 9 A.M. until an hour before sunset (November 1 to May 1 from 10 A.M.). Free, except on Mondays and Thursdays, when an admission fee of twenty-five cents is charged. Exhibition of a splendid collection of animals, birds and reptiles. The fauna of Henry Hudson's time on Manhattan Island and in the Hudson River Valley will be indicated by the flag of the Hudson-Fulton Celebration. (Special illustrated catalogue for sale.)

*Reformed Dutch Church*. The Reformed Protestant Dutch Church of the City of New York will make an exhibit in the chapel of the church of St. Nicholas, Fifth Avenue and Forty-eighth Street, during the week of the celebration, 9 A.M. to 5 P.M. daily. (This church was organized A.D. 1628, and the exhibit will comprise articles connected with its long history.)

*Van Cortlandt House Museum*, in Van Cortlandt Park. This fine colonial mansion, built in 1748, with furniture of the period, is one of the oldest houses within the area of Greater New York; it is in the custody of the Colonial Dames of the State of New York. Open daily, 9 A.M. to 5 P.M. Special exhibition of mezzotint portraits of men prominent in political life prior to the revolution; Wedgwood's medallion portraits of illustrious personages; cartoons and caricatures of political events, etc. (Special illustrated catalogue on sale.)

*Washington's Headquarters (The Jumel Mansion)*, Roger Morris Park, Edgecombe Road and One Hundred and Sixty-second Street. Built about 1760. Under the Department of Parks.

Exhibition by the ladies of the Washington Headquarters Association, Daughters of the American Revolution. Open free daily, including Sundays, from 9 A.M. to 5 P.M. Special features: collection of colonial furnishings, objects and pictures; also the Bolton collection of war relics of the revolution.

*American Geographical Society*, 15 West Eighty-first Street. Special exhibition of books and maps relating to Henry Hudson and Robert Fulton. Admission can be obtained by card. Apply to the librarian, 15 West Eighty-first Street. Open from September 25 to October 9, from 9 A.M. to 5 P.M.

GEORGE F. KUNZ,

*Chairman Historical and Scientific Exhibitions,  
Hudson-Fulton Celebration Commission,  
Tribune Building, New York*

#### SCIENTIFIC NOTES AND NEWS

IN connection with the celebration of the twentieth anniversary of Clark University, honorary degrees have been conferred as follows: *Doctor of Laws*—Percival Lowell, Boston; Ernest Fox Nichols, president of Dartmouth College; William Fogg Osgood, Harvard University; James Pierpont, Yale University; Hermon Carey Bumpus, director of the American Museum of Natural History; Leo Burgerstein, University of Vienna; Carl Barus, Brown University; Franz Boas, Columbia University; Sigmund Freud, University of Vienna; Herbert Spencer Jennings, Johns Hopkins University; Carl G. Jung, University of Zurich; Adolf Meyer, Johns Hopkins University; L. William Stern, University of Breslau; Edward Burr Van Vleck, University of Wisconsin; Robert Williams Wood, Johns Hopkins University. *Doctor of Physics*—Vito Volterra, University of Rome; Albert Abraham Michelson, University of Chicago; Ernest Rutherford, University of Manchester, England. *Doctor of Letters*—Edward Bradford Titchener, Cornell University. *Doctor of Biology*—Charles Otis Whitman, University of Chicago. *Doctor of Mathematics*—Eliakim Hastings Moore, University of Chicago.

DR. HENRY FAIRFIELD OSBORN, of New York, has been elected a corresponding member of the Senckenberg Natural History Society at Frankfurt.

At the recent meeting of the Association of Edison Illuminating Companies, of New York City, a dinner was given to Mr. Thomas A. Edison. Among those who spoke were Mr. W. W. Freeman, the retiring president of the association, Mr. Thomas E. Murray, the incoming president, and Dr. Charles P. Steinmetz.

A LUNCHEON complimentary to Dr. Henry B. Ward, dean of the medical department of the University of Nebraska, was given by his colleagues at Omaha, on September 3, and, at the same time, the presentation of a gold watch was made to him. Dr. Ward, it will be remembered, has accepted the chair of zoology in the University of Illinois.

DR. MORITZ CANTOR, professor of mathematics at Heidelberg, has celebrated his eightieth birthday.

DR. OSCAR LENZ, professor of geography at Prague, has retired from active service.

PROFESSOR ALBRECHT PENCK, who lectured last winter at Columbia University, has returned to Berlin after visiting the Sandwich Islands and Japan.

PROFESSOR MORGAN BROOKS, of the electrical engineering department of the University of Illinois, has a year's leave of absence and will take a trip round the world, first spending about three months in Europe.

THE following members of the Bureau of Longitudes will represent France at the International Geodetical Congress which is to be held in London on the twenty-first inst.: General Bassot, president of the society, M. Henri Poincaré, M. Hanusse, director of hydrography in the French Ministry of Marine, M. Charles Lallemand, director-general of the French Ordinance Survey Department, and Colonel Bourgeois, chief of the surveying section of the geographical department of the War Office.

A. H. SUTHERLAND, Ph.D. (Chicago), has been appointed and has taken up his duties as assistant in psychology at the Government Hospital for the Insane, Washington.

It is stated in *Economic Geology* that at the request of the Canadian Geological Survey for

the loan of a topographer, the United States Geological Survey has granted R. H. Chapman leave of absence for one year and he is at present engaged in topographic work for the Canadian government.

MISS JULIA MCCORD, who has been assistant librarian of the United States Geological Survey for a number of years, has been made librarian.

DR. PAUL LANGHANS has become editor of *Petermann's Mitteilungen*, to succeed Dr. Supan, who has been called to the chair of geography at Breslau.

DR. HENRY C. CHAPMAN, professor emeritus in the Jefferson Medical College, Philadelphia, and known for his work in physiology, anatomy and medical jurisprudence, died at his summer home in Bar Harbor, on September 7, aged sixty-four years.

DR. RADCLIFFE CROCKER, of London, known for his contributions to dermatology, has died at the age of sixty-four years.

DR. KARL HABERMANN, professor in the Mining Academy at Leoben, died on August 20.

THE death is also announced of Dr. Valentino Cerrutti, professor of mathematics at the University of Rome.

THE autumn meeting of the American Physical Society will this year be held at Princeton University, on Saturday, October 23. This date has been chosen on account of the opening of the new Palmer Physical Laboratory, which will take place on the evening of October 22.

THE National Museum of Wales, of which Dr. W. E. Hoyle is director, at Cardiff, will have a new building to be erected at a cost of £250,000. It will include the following exhibition galleries: history and antiquities; geology and mineralogy; Welsh natural history; zoology and botany; industries; art; children's room; aquarium.

THE next International Congress of Mining, Metallurgy, Applied Mechanics and Practical Geology, will be held at Düsseldorf during the last week of June, 1910.

THE Missouri State Soil Survey and the United States Soil Survey have united on a plan of cooperative work. Each survey contributes \$15,000 for the biennial period, 1909-11. Professor C. F. Marbut, director of the Missouri Survey has been appointed special agent in charge. He will also have charge of the reconnoissance work in the Ozark region of Missouri and Arkansas. The local detailed work and the selection of areas to be surveyed are largely decided by the state survey and the broader correlations and nomenclature are largely left to the United States Survey. The federal survey assumes the expenses of publication. Each soil party consists of one man from the United States Survey and one from the state survey. It is expected that from four to five counties will be surveyed each year.

SIR WILLIAM HARTLEY, of Liverpool and London, offers £1,000 to the first person who makes a successful flight in a heavier-than-air machine between Liverpool and Manchester. The aviator is to depart from within the boundary of Liverpool and land, without any intermediate stop, within the boundary of Manchester. The offer is international and will last for six months, the flight to be made between sunrise and sunset and twelve hours' notice to be given to the *Liverpool Daily Post and Mercury*, in whose hands the competition is placed.

THE government's work in poisoning prairie dogs on infested stock ranges in the Missoula National Forest district has had results this year which forest officers have decided warrant its continuation in 1910. For two years systematic efforts upon an extensive scale have been made by the Forest Service in cooperation with the stockmen, to rid the national forest ranges in Arizona, Colorado and New Mexico of these pests, but this work was not undertaken in the northwest until the spring of 1909. Eastern Montana and the Dakotas seem to be the worst-infested portion of the Missoula district. The national forest areas of these regions are comparatively small, but in some instances the colonies or towns of these animals cover an area of several hundred

acres and the native forage plants have been greatly injured, while some range areas outside the forests have been practically devastated. In the spring of the present year small allotments of funds were made to the supervisors of the Custer and Sioux National Forests for the purpose of starting this work. The funds were for the most part expended in purchasing strychnine and other drugs used in preparing grain for bait, while the grain was furnished by the settlers. The poisoned grain, usually wheat, was distributed at the holes throughout the dog towns, both by forest officers and by forest users. More time was consumed in perfecting the plan of cooperation than had been anticipated and much of the bait was put out too late to obtain the best results, though several large dog towns were entirely cleaned up. Experience has proved that the grain should be put out very early in the spring for the best results may be obtained before green grass becomes available.

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#### UNIVERSITY AND EDUCATIONAL NEWS

THE five hundredth anniversary of St. Andrews University will take place in 1913. At a recent meeting it was agreed to arrange for a national as well as an academic celebration. It has been resolved to form a general committee representing Scottish interests and sympathies, to fix the date of the celebration, and to endeavor to associate with the festival some permanent memorial of the anniversary.

THE number of foreign students at the German universities last summer was 3,921. The number includes 1,578 Russians, 674 Austro-Hungarians, 306 Swiss, 155 English, 154 Bulgarians, 102 Rumanians, 68 Servians, 60 French, 298 Americans, 175 Asiatics and 4 Australians.

FIVE scholarships and two fellowships have been awarded by the College of Agriculture of the University of Wisconsin. The two fellowships of \$400 each recently provided by the regents were awarded to Alvin C. Oosterhuis, Sheboygan Falls, Wis., in animal husbandry, and Morris W. Richards, Madison, Wis., in horticulture.